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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/039,984	10/29/2001	Olga G. Petrovskaia	1651A1	8551
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Frank P. Mallak, PA PPG Industries, Inc. One PPG Place			EXAMINER	
			TUCKER, PHILIP C	
Pittsburgh, PA	15272		ART UNIT	PAPER NUMBER
			1732	5
			DATE MAILED: 04/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. Application				
The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address— Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE		1 ' ,		
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OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered interly. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered interly. - If the period for reply specified above, such period shalt, by destaut, exples SIX (8) MONTHS from the mailing date of this consideration. - Fairve to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Status - Responsive to communication(s) filed on	Period for Reply	_		
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This action is FINAL. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213. Disposition of Claims	Status			
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Disposition of Claims Claim(s)				
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Of the above claim(s) Is/are withdrawn from consideration. Is/are withdrawn from consideration. Is/are allowed. Is/are allowed. Is/are rejected. Is/are rejected. Is/are rejected. Is/are rejected. Is/are objected to. Is/are objected to. Is/are objected to. Is/are objected to restriction or election requirement. Is/are objected to requirement. Is/are objected to a requirement. Is/are objected to by the Examiner. Interview Summary, PTO-948. Is/are objected to by the Examiner. Is/are objected to by the Examiner. Interview Summary, PTO-948. Is/are objected to by the Examiner. Is/are objected to by the Examiner. Interview Summary, PTO-948. Is/are objected to by the Examiner. Is/are objected to by the Examiner. Interview Summary, PTO-948. Is/are objected to by the Examiner. Is/are objected to by the Examiner.	Disposition of Claims			
Sclaim(s)	Claim(s)		is/are pending in the application.	
Sclaim(s)	Of the above claim(s)		is/are withdrawn from consideration	on.
Claim(s)	⊠ Claim(s) H		is/are allowed.	
□ Claim(s)	\times Claim(s) $1-3, 5-21$		is/are rejected.	
Application Papers See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948. The proposed drawing correction, filed on	☐ Claim(s)		is/are objected to.	
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Art Unit: 1712

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-3 and 5-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, part (b) in the definition of R3 (page 45, lines 11-12), there is no antecedent basis for "said first R3 ring" or "said second R3 ring". In claim 2, part (b) in the definition of R3 (page 49, line 7), there is no antecedent basis for "said R3 ring". Dependent claims fall herewith. Claim 2 ends with a semicolon, it is thus not clear if the claim is complete.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

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(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purpos es of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 4. Claims 1-3 and 5-15 are rejected under 35 U.S.C. 102(e) as being anticipated by JP 2000-327675.

JP '675 teaches a photochromic composition which comprises spiro and oxo naphthopyran compounds of the present invention, which are used in similar polymer compositions (see whole document).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 3 and 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2000-327675 in view of Van Gemert (5645767).

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JP '675 teaches a photochromic composition which comprises spiro and oxo naphthopyran compounds of the present invention, which are used in similar polymer compositions (see whole document). JP '675 differs from the present invention in that the use of a second photochromic compound having an absorption maxima between 400 and 700 nm is not disclosed. Van Gemert teaches naphthopyran compounds which are isomers of the present compounds, and teaches the use of such compound in combination with other photochromic compounds to achieve an appropriate hue (column 12, lines 33-44). It would be obvious to one of ordinary skill in the art to combine the compounds of JP '675, with a photochromic compound having an absorption maxima between 400 and 700 nm, given the teaching of Van Gemert that

the combination of similar naphthopyrans and photochromic compounds, may be made to

7. Claim 4 is allowable over the art of record.

achieve an appropriate hue.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Tucker whose telephone number is (703) 308-0529. The examiner's normal working hours are 7:30am-4:00pm, Monday-Friday. If necessary SPE Robert Dawson may be contacted at 703-308-2340. For inquiries of a general nature call the receptionist at 703-308-0651. The group FAX no. is 703-872-9310. The after final fax no. Is 703-872-9311.

PCT-2773 April 3, 2003

PHILIP C. TUCKER ART UNIT 1712